

Phoenix Lake IRWM Retrofit

Attachment 4 - Budget

1.0 General Overview of Budget

This Attachment presents the budget for the Phoenix Lake IRWM Retrofit. Included are detailed estimates of costs and funding sources for all five component projects comprising the Retrofit. Also included are summary budgets for all five projects and a summary budget for the whole Retrofit proposal.

2.0 Explanation of Budget Items in Detailed Project Budgets

Following are notes that provide explanations and rationale for the various budget items.

1. Budget category (a) Direct Project Administration costs are less than 5% of the individual project costs and the overall proposal cost. These costs have been generally allocated across the five projects according to each project's proportion of the total proposal construction cost. Specific additional costs in this category, e.g., preparation of an MOA between FZ9 and MMWD, have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.
2. Budget category (b) Land Purchase/Easement has no cost because all proposal activities occur on property owned by MMWD; therefore, no land purchases or easements are needed.
3. Budget category (c) Planning/Design//Engineering/Environmental Documentation costs have been allocated according to the needs of the individual projects, except Environmental Documentation which has been allocated across the five projects according to each project's proportionate share of the total proposal construction cost, as noted in Attachment 3, Workplan.

A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work has been completed, except for an initial, informal consultation regarding dam issues with DSOD. The contingency is intended to cover unforeseen requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.

4. Budget category (d) Construction/Implementation costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Construction costs derive primarily from the estimated costs given in the Concept (30%) Design memoranda for the various projects as indicated in Attachment 3, Workplan.

5. Budget category (e) Environmental Compliance/Mitigation/Enhancement costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen environmental compliance and mitigation requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.

6. Budget category (f) Construction Administration costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Costs include labor (a melded staff rate of \$80 per hour) and resources that will be expended by FZ9 and MMWD staff to monitor field construction work and administer contracts.

3.0 Explanation of Budget Items in Summary Budgets

Following are notes that provide explanations and rationale for the various budget items.

1. The summary budgets show a 50%/50% funding match for all projects categories across all projects. The source of the Non-State share is the FZ9 drainage fee.
2. A contingency of 25% has been assigned to Construction/Implementation Contingency for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen construction costs that might arise as the projects progress through further stages of design, environmental review, and permitting and any unlisted items not detailed in the construction cost estimate.

Table 1a Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Flood Damage Reduction Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$203,000	\$202,000	\$0	\$405,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$397,000	\$396,000	\$0	\$793,000	50%
(d)	Construction/Implementation	\$4,126,000	\$4,125,000	\$0	\$8,251,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$131,000	\$130,000	\$0	\$261,000	50%
(f)	Construction Administration	\$202,000	\$202,000	\$0	\$404,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$1,032,000	\$1,031,000	\$0	\$2,063,000	50%
(i)	Grand Total	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1b Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Water Supply Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$15,000	\$15,000	\$0	\$30,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
(c)	Planning/Design/Engineering/Environmental Documentation	\$71,000	\$70,000	\$0	\$141,000	50%
(d)	Construction/Implementation	\$138,000	\$137,000	\$0	\$275,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$9,000	\$8,000	\$0	\$17,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$35,000	\$34,000	\$0	\$69,000	50%
(i)	Grand Total	\$341,000	\$341,000	\$0	\$682,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1c Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Water Quality Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$12,000	\$12,000	\$0	\$24,000	50%
(d)	Construction/Implementation	\$68,000	\$67,000	\$0	\$135,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$17,000	\$17,000	\$0	\$34,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$17,000	\$17,000	\$0	\$34,000	50%
(i)	Grand Total	\$191,000	\$191,000	\$0	\$382,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1d Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Ecosystem Restoration Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0		
I	Planning/Design/Engineering/Environmental Documentation	\$50,000	\$49,000	\$0	\$99,000	50%
(d)	Construction/Implementation	\$65,000	\$65,000	\$0	\$130,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$0	\$0	\$0		50%
(f)	Construction Administration	\$2,000	\$2,000	\$0	\$4,000	50%
(g)	Other Costs	\$0	\$0	\$0		
(h)	Construction/Implementation Contingency (25%)	\$17,000	\$16,000	\$0	\$33,000	50%
(i)	Grand Total	\$136,000	\$135,000	\$0	\$271,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1e Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Recreation and Public Access Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$31,000	\$30,000	\$0	\$61,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$110,000	\$109,000	\$0	\$219,000	50%
(d)	Construction/Implementation	\$554,000	\$554,000	\$0	\$1,108,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$6,500	\$6,500	\$0	\$13,000	50%
(f)	Construction Administration	\$66,000	\$66,000	\$0	\$132,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$139,000	\$138,000	\$0	\$277,000	50%
(i)	Grand Total	\$905,000	\$905,000	\$0	\$1,810,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 2 Summary Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(a)	Flood Damage Reduction Project	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%
(b)	Water Supply Project	\$341,000	\$341,000	\$0	\$682,000	50%
(c)	Water Quality Project	\$191,000	\$191,000	\$0	\$382,000	50%
(d)	Ecosystem Recreation Project	\$136,000	\$135,000	\$0	\$271,000	50%
(e)	Recreation and Public Access Project	\$905,000	\$905,000	\$0	\$1,810,000	50%
(f)	Grand Total	\$7,661,000	\$7,661,000	\$0	\$15,322,000	50%
* Non-State funding source: FZ9 drainage fee						

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Flood Damage Reduction Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/ Contraction	Flood Zone 9	MMWD	Firms Totals						Total Cost		
	Staff and Classifications																										
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analysts	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost		Construction Contractor Total cost	
																					On Labor (3%)	Subcontractors					
																						Drilling	Soils/Materials/ Water Testing Lab				
Billing Rates and Hours																											
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80								
Budget Category (a): Direct Project Administration Costs																											
Task 1: Administration																		3860	60	\$ 313,600	\$ 9,408			\$ 323,008	\$ 323,008		
Task 2: Labor Compliance Program																		500		\$ 40,000	\$ 1,200			\$ 41,200	\$ 41,200		
Task 3: Reporting																		500		\$ 40,000	\$ 1,200			\$ 41,200	\$ 41,200		
Subtotal																					\$ 393,600	\$ 11,808			\$ 405,408		\$ 405,408
Budget Category (b): Land Purchase/Easement																											
Not needed																											
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																											
Task 4: Assessment and Evaluation	10	75	100		10	30	60		10									60	40	\$ 56,325	\$ 1,690	\$ 65,000	\$ 21,000	\$ 144,015	\$ 144,015		
Task 5: Final Design	50	80	60	180	40	100	200	80	20									60	60	\$ 129,850	\$ 3,896			\$ 133,746	\$ 133,746		
Task 6: Environmental Documentation	40									200	300	400	650	200	150			120	80	\$ 217,400	\$ 6,522			\$ 223,922	\$ 223,922		
Task 7: Permitting		40				60	100			100	100	100	325	100	75			100	40	\$ 128,900	\$ 3,867			\$ 132,767	\$ 132,767		
Sub-Subtotal																					\$ 532,475	\$ 15,974			\$ 634,449		\$ 634,449
Contingency (25%)	0.25																				\$ 133,119	\$ 3,994			\$ 158,612		\$ 158,612
Subtotal																					\$ 665,594	\$ 19,968			\$ 793,062		\$ 793,062
Budget Category (d): Construction/Implementation																											
Task 8: Construction Contracting		60				20	100											40	40	\$ 38,800	\$ 1,164		\$ 30,000		\$ 39,964	\$ 39,964	
Task 9: Construction																				\$ -	\$ -			\$ 8,212,000	\$ 8,212,000		
Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 430,000	\$ 430,000		
Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 7,632,000	\$ 7,632,000		
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$ -			\$ 100,000	\$ 100,000		
Subtask 9.4 Monitoring system																				\$ -	\$ -			\$ 50,000	\$ 50,000		
Subtotal																					\$ 38,800	\$ 1,164			\$ 8,251,964		\$ 8,251,964
Budget Category (e): Environmental compliance/Mitigation/Enhancement																											
Task 10: Environmental Compliance/Mitigation/Enhancement	40					40						600						60	80	\$ 86,400	\$ 2,592			\$ 89,000	\$ 150,000	\$ 239,000	
Contingency (25%)	0.25																				\$ 21,600	\$ 648			\$ 22,250		\$ 22,250
Subtotal																					\$ 108,000	\$ 3,240			\$ 111,250	\$ 150,000	\$ 261,250
Budget Category (f): Construction Administration																											
Task 11: Construction Administration	20	80				240	1200					800						200	200	\$ 392,500	\$ 11,775			\$ 404,300	\$ 404,300		
Total Hours	160	335	160	180	50	490	1660	80	30	300	400	1900	975	300	225	0	0	5500	600	13,345							
Total Costs	\$ 29,600	\$ 58,625	\$ 24,800	\$ 19,800	\$ 3,000	\$ 95,550	\$ 298,800	\$ 8,800	\$ 1,800	\$ 42,000	\$ 48,000	\$ 190,000	\$ 97,500	\$ 24,000	\$ 13,500	\$ -	\$ -	\$ 440,000	\$ 48,000	\$ 1,443,775	\$ 47,955			\$ 1,714,000	\$ 8,402,000	\$ 10,116,000	

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Water Supply Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/ Contraction	Flood Zone 9	MMWD	Firms Totals							Total Cost	
	Staff and Classifications																										
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analysts	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost	Construction Contractor Total cost		
																					On Labor (3%)	Subcontractors					
																						Drilling	Soils/Materials/ Water Testing Lab				
Billing Rates and Hours																											
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80								
Budget Category (a): Direct Project Administration Costs																											
Task 1: Administration																		240	60	\$ 24,000	\$ 720			\$ 24,720	\$ 24,720		
Task 2: Labor Compliance Program																		30		\$ 2,400	\$ 72			\$ 2,472	\$ 2,472		
Task 3: Reporting																		30		\$ 2,400	\$ 72			\$ 2,472	\$ 2,472		
Subtotal																				\$ 28,800	\$ 864			\$ 29,664	\$ 29,664		
Budget Category (b): Land Purchase/Easement																											
Not needed																											
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																											
Task 4: Assessment and Evaluation	10	75	100		10													5	5	\$ 31,875	\$ 956			\$ 32,831	\$ 32,831		
Task 5: Final Design	40	100	20	200	20													5	5	\$ 52,000	\$ 1,560			\$ 53,560	\$ 53,560		
Task 6: Environmental Documentation	10									10	20	20	40	10	5			10	5	\$ 13,950	\$ 419			\$ 14,369	\$ 14,369		
Task 7: Permitting	20	40																10	5	\$ 11,900	\$ 357			\$ 12,257	\$ 12,257		
Sub-Subtotal																				\$ 109,725	\$ 3,292			\$ 113,017	\$ 113,017		
Contingency (25%)	0.25																			\$ 27,431	\$ 823			\$ 28,254	\$ 28,254		
Subtotal																				\$ 137,156	\$ 4,115			\$ 141,271	\$ 141,271		
Budget Category (d): Construction/Implementation																											
Task 8: Construction Contracting	20	60																20	20	\$ 17,400	\$ 522			\$ 17,922	\$ 17,922		
Task 9: Construction																				\$ -	\$ -			\$ 257,000	\$ 257,000		
Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 12,000	\$ 12,000		
Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 237,000	\$ 237,000		
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$ -			\$ 8,000	\$ 8,000		
Subtask 9.4 Monitoring system																				\$ -	\$ -				\$ -		
Subtotal																				\$ 17,400	\$ 522			\$ 274,922	\$ 274,922		
Budget Category (e): Environmental compliance/Mitigation/Enhancement																											
Task 10: Environmental Compliance/Mitigation/Enhancement																				\$ -	\$ -			\$ -	\$ 150,000	\$ 150,000	
Contingency (25%)	0.25																			\$ -	\$ -			\$ -		\$ -	
Subtotal																				\$ -	\$ -			\$ -	\$ 150,000	\$ 150,000	
Budget Category (f): Construction Administration																											
Task 11: Construction Administration	10	60																20	30	\$ 16,350	\$ 491			\$ 16,800	\$ 16,800		
Total Hours	110	335	120	200	30	0	0	0	0	10	20	20	40	10	5	0	0	370	130	1,400							
Total Costs	\$ 20,350	\$ 58,625	\$ 18,600	\$ 22,000	\$ 1,800	\$ -	\$ -	\$ -	\$ -	\$ 1,400	\$ 2,400	\$ 2,000	\$ 4,000	\$ 800	\$ 300	\$ -	\$ -	\$ 29,600	\$ 10,400	\$ 172,275	\$ 5,991			\$ 188,000	\$ 425,000	\$ 613,000	

Project Budget Details
 Proposal Title: Phoenix Lake IRWM Retrofit
 Project Title: Water Quality Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/ Contraction	Flood Zone 9	MMWD	Firms Totals						Total Cost				
	Staff and Classifications																												
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost		Construction Contractor Total cost			
																					On Labor (3%)	Subcontractors							
																						Drilling	Soils/Materials/ Water Testing Lab						
Billing Rates and Hours																													
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80										
Budget Category (a): Direct Project Administration Costs																													
	Task 1: Administration																		45		\$ 3,600	\$ 108			\$ 3,708		\$ 3,708		
		Task 2: Labor Compliance Program																		10		\$ 800	\$ 24			\$ 824		\$ 824	
			Task 3: Reporting																		10		\$ 800	\$ 24			\$ 824		\$ 824
				Subtotal																			\$ 5,200	\$ 156			\$ 5,356		\$ 5,356
Budget Category (b): Land Purchase/Easement																													
	Not needed																												
		Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																											
			Task 4: Assessment and Evaluation																60	60	10	10	\$ 12,400	\$ 372			\$ 12,772		\$ 12,772
Task 5: Final Design																			5	5	\$ 800	\$ 24			\$ 824		\$ 824		
	Task 6: Environmental Documentation	5										5	5	5	10	5	5			5	5	\$ 5,225	\$ 157			\$ 5,382		\$ 5,382	
		Task 7: Permitting																				5	\$ 400	\$ 12			\$ 412		\$ 412
Sub-Subtotal																			\$ 18,825	\$ 565			\$ 19,390		\$ 19,390				
	Contingency (25%)	0.25																		\$ 4,706	\$ 141			\$ 4,847		\$ 4,847			
		Subtotal																			\$ 23,531	\$ 706			\$ 24,237		\$ 24,237		
	Budget Category (d): Construction/Implementation																												
Task 8: Construction Contracting		10	40																20	10	\$ 11,250	\$ 338			\$ 11,588		\$ 11,588		
		Task 9: Construction																				\$ -	\$ -			\$ 123,000		\$ 123,000	
			Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 3,000		\$ 3,000
				Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 108,000	
Subtask 9.3 Performance Testing and Demobilization																							\$ -	\$ -			\$ 2,000		\$ 2,000
	Subtask 9.4 Monitoring system																					\$ -	\$ -			\$ 10,000		\$ 10,000	
Subtotal																				\$ 11,250	\$ 338			\$ 134,588		\$ 134,588			
	Budget Category (e): Environmental compliance/Mitigation/Enhancement																												
Task 10: Environmental Compliance/Mitigation/Enhancement																					\$ -	\$ -			\$ -	\$ 150,000	\$ 150,000		
		Contingency (25%)	0.25																		\$ -	\$ -			\$ -		\$ -		
			Subtotal																			\$ -	\$ -			\$ -	\$ 150,000	\$ 150,000	
				Budget Category (f): Construction Administration																									
Task 11: Construction Administration	10	60																	20	30	\$ 16,350	\$ 491			\$ 16,800	\$ 17,300	\$ 34,100		
	Total Hours	25	100		0	0	0	0	0	0	5	5	5	10	5	5	60	60	125	65	470								
		Total Costs	\$ 4,625		\$ 17,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700	\$ 600	\$ 500	\$ 1,000	\$ 400	\$ 300	\$ 6,000	\$ 4,800	\$ 10,000	\$ 5,200	\$ 51,625	\$ 1,690			\$ 46,000	\$ 285,000	\$ 331,000

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Ecosystem Restoration Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/ Contraction	Flood Zone 9	MMWD	Firms Totals							Total Cost			
	Staff and Classifications																												
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost	Construction Contractor Total cost				
																					On Labor (3%)	Subcontractors							
																						Drilling	Soils/Materials/ Water Testing Lab						
Billing Rates and Hours																													
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80										
Budget Category (a): Direct Project Administration Costs																													
	Task 1: Administration																	45		\$ 3,600	\$ 108			\$ 3,708		\$ 3,708			
		Task 2: Labor Compliance Program																	10		\$ 800	\$ 24			\$ 824		\$ 824		
			Task 3: Reporting																	10		\$ 800	\$ 24			\$ 824		\$ 824	
				Subtotal																			\$ 5,200	\$ 156			\$ 5,356		\$ 5,356
Budget Category (b): Land Purchase/Easement																													
	Not needed																												
		Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																											
			Task 4: Assessment and Evaluation															75	75	5	5	\$ 14,300	\$ 429			\$ 14,729		\$ 14,729	
Task 5: Final Design				5	5	20													5	5	\$ 4,650	\$ 140			\$ 4,790		\$ 4,790		
	Task 6: Environmental Documentation			5									5	5	5	10	5	5		5	5	\$ 5,225	\$ 157			\$ 5,382		\$ 5,382	
		Task 7: Permitting		40	20								20	100	100		10	10			100	100	\$ 53,100	\$ 1,593			\$ 54,693		\$ 54,693
Sub-Subtotal																			\$ 77,275	\$ 2,318			\$ 79,593		\$ 79,593				
	Contingency (25%)	0.25																		\$ 19,319	\$ 580			\$ 19,898		\$ 19,898			
		Subtotal																			\$ 96,594	\$ 2,898			\$ 99,492		\$ 99,492		
			Budget Category (d): Construction/Implementation																										
Task 8: Construction Contracting		5																	5	5	\$ 1,675	\$ 50			\$ 1,725		\$ 1,725		
	Task 9: Construction																				\$ -	\$ -			\$ 128,000		\$ 128,000		
		Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 6,000		\$ 6,000	
				Subtask 9.2 Project Construction																			\$ -	\$ -			\$ 12,000		\$ 12,000
Subtask 9.3 Performance Testing and Demobilization																						\$ -	\$ -			\$ 5,000		\$ 5,000	
	Subtask 9.4 Monitoring system																			\$ -	\$ -			\$ 105,000		\$ 105,000			
Subtotal																				\$ 1,675	\$ 50			\$ 129,725		\$ 129,725			
	Budget Category (e): Environmental compliance/Mitigation/Enhancement																												
Task 10: Environmental Compliance/Mitigation/Enhancement																				\$ -	\$ -			\$ -		\$ -			
		Contingency (25%)	0.25																		\$ -	\$ -			\$ -		\$ -		
			Subtotal																			\$ -	\$ -			\$ -	\$ -	\$ -	
				Budget Category (f): Construction Administration																									
Task 11: Construction Administration	5	10																	5	5	\$ 3,475	\$ 104			\$ 3,600		\$ 3,600		
	Total Hours	50	40		5	20	0	0	0	0	0	25	105	105	10	15	15	75	75	190	125	855							
		Total Costs	\$ 9,250		\$ 7,000	\$ 775	\$ 2,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,500	\$ 12,600	\$ 10,500	\$ 1,000	\$ 1,200	\$ 900	\$ 7,500	\$ 6,000	\$ 15,200	\$ 10,000	\$ 87,625	\$ 3,208			\$ 108,000	\$ 130,000	\$ 238,000

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Recreation and Public Access Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/ Contraction		Flood Zone 9	MMWD	Firms Totals						Total Cost																			
	Staff and Classifications																																												
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analysts	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses		Non-Construction Total Cost	Construction Contractor Total cost																					
																					On Labor (3%)	Subcontractors																							
																						Drilling			Soils/Materials/ Water Testing Lab																				
	Billing Rates and Hours																																												
																				\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80							
Budget Category (a): Direct Project Administration Costs																																													
Task 1: Administration																																			600		\$ 48,000	\$ 1,440			\$ 49,440		\$ 49,440		
Task 2: Labor Compliance Program																																			70		\$ 5,600	\$ 168			\$ 5,768		\$ 5,768		
Task 3: Reporting																																			70		\$ 5,600	\$ 168			\$ 5,768		\$ 5,768		
Subtotal																														\$ 59,200	\$ 1,776			\$ 60,976		\$ 60,976									
Budget Category (b): Land Purchase/Easement																																													
Not needed																																													
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																																													
Task 4: Assessment and Evaluation																																				\$ -	\$ -			\$ -		\$ -			
Task 5: Final Design																				40	200	80	400	20												20	60	\$ 106,400	\$ 3,192			\$ 109,592		\$ 109,592	
Task 6: Environmental Documentation																													20	60	60	80	20	20		20	40	\$ 31,600	\$ 948			\$ 32,548		\$ 32,548	
Task 7: Permitting																					20								20	100	100	20	10	10			5	\$ 32,100	\$ 963			\$ 33,063		\$ 33,063	
Sub-Subtotal																														\$ 170,100	\$ 5,103			\$ 175,203		\$ 175,203									
Contingency (25%)																				0.25										\$ 42,525	\$ 1,276			\$ 43,801		\$ 43,801									
Subtotal																														\$ 212,625	\$ 6,379			\$ 219,004		\$ 219,004									
Budget Category (d): Construction/Implementation																																													
Task 8: Construction Contracting																				10	80														20	60	\$ 22,250	\$ 668				\$ 22,918	\$ 22,918		
Task 9: Construction																																					\$ -	\$ -			\$ 1,085,000	\$ 1,085,000			
Subtask 9.1 Mobilization and Site Preparation																																					\$ -	\$ -			\$ 24,000	\$ 24,000			
Subtask 9.2 Project Construction																																					\$ -	\$ -			\$ 1,034,000	\$ 1,034,000			
Subtask 9.3 Performance Testing and Demobilization																																					\$ -	\$ -			\$ 27,000	\$ 27,000			
Subtask 9.4 Monitoring system																																					\$ -	\$ -							
Subtotal																														\$ 22,250	\$ 668			\$ 1,107,918	\$ 1,107,918										
Budget Category (e): Environmental compliance/Mitigation/Enhancement																																													
Task 10: Environmental Compliance/Mitigation/Enhancement																														100							\$ 10,000	\$ 300			\$ 10,300		\$ 10,300		
Contingency (25%)																				0.25										\$ 2,500	\$ 75			\$ 2,575		\$ 2,575									
Subtotal																														\$ 12,500	\$ 375			\$ 12,875	\$ -	\$ 12,875									
Budget Category (f): Construction Administration																																													
Task 11: Construction Administration																				20	100									880						40	200	\$ 128,400	\$ 3,852			\$ 132,300		\$ 132,300	
Total Hours																				70	400	80	400	20	0	0	0	0	40	160	1140	100	30	30	0	0	840	365	3,675						
Total Costs																				\$ 12,950	\$ 70,000	\$ 12,400	\$ 44,000	\$ 1,200	\$ -	\$ -	\$ -	\$ -	\$ 5,600	\$ 19,200	\$ 114,000	\$ 10,000	\$ 2,400	\$ 1,800	\$ -	\$ -	\$ 67,200	\$ 29,200	\$ 389,950	\$ 13,049			\$ 425,000	\$ 1,108,000	\$ 1,533,000